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CHINA.

IMPERIAL MARITIME CUSTOMS.

III.—MISCELLANEOUS SERIES: No. 6.

LIST OF THE CHINESE
LIGHTHOUSES, LIGHT-VESSELS, BUOYS,
AND BEACONS

FOR

1882.

(Corrected to 1st February 1882.)

TENTH ISSUE.

PUBLISHED BY ORDER OF
The Inspector General of Customs.

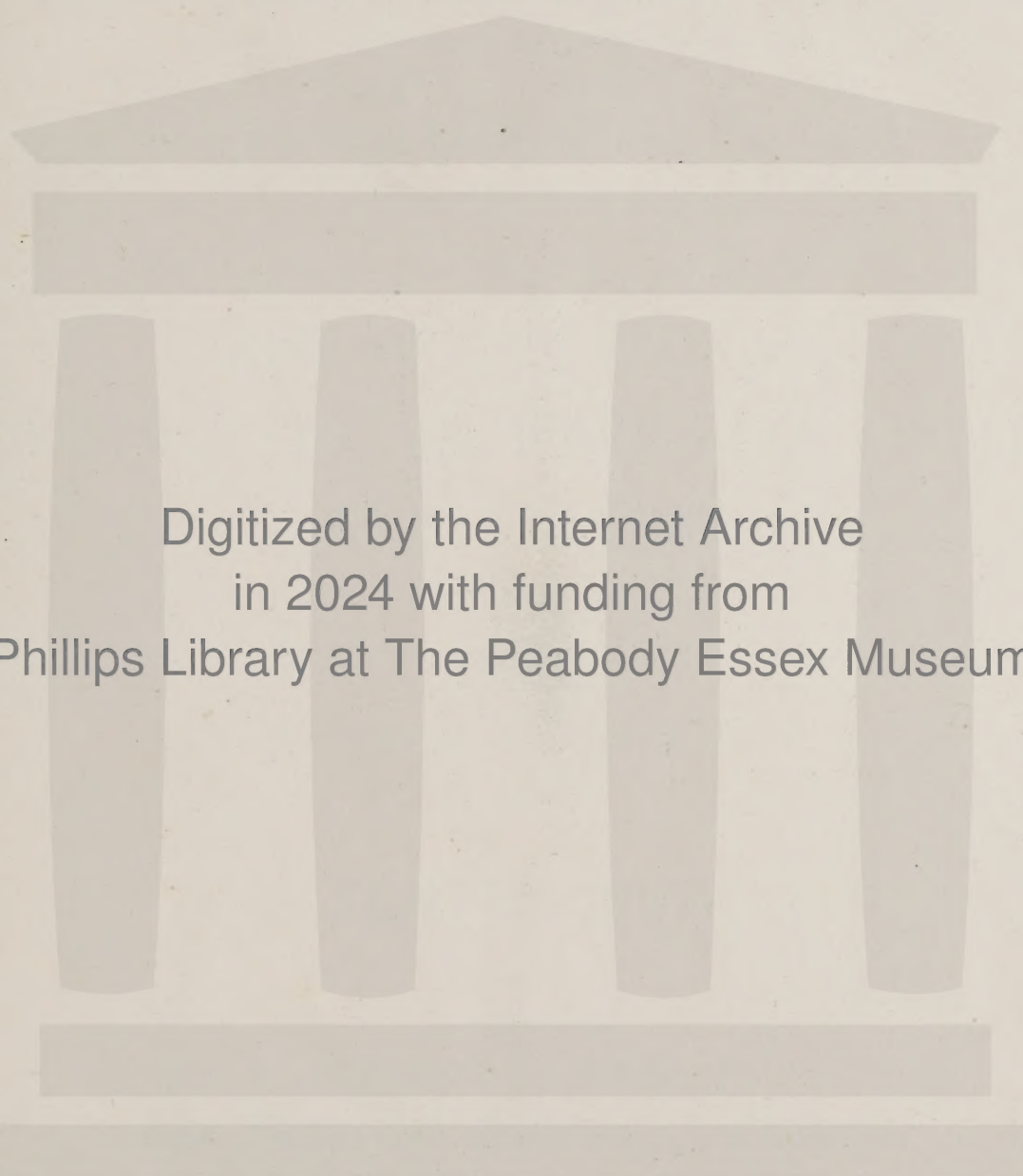
SHANGHAI:
STATISTICAL DEPARTMENT
OF THE
INSPECTORATE GENERAL.

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CHINA. 15

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Page.

ABBREVIATIONS AND EXPLANATIONS.

LIGHTS.

- F. Fixed; only a fixed or steady light being visible.
- F. & Fl. Fixed and Flashing; a fixed light being always visible, which is intensified by flashes at the intervals stated.
- Rev. Revolving; the light gradually increases to full effect and then gradually decreases to total eclipse at the intervals given, which are from centre to centre of the maximum brilliancy.
- Occ. Occulting; when, for the periods stated, a fixed or steady light is shown, followed by a more or less sudden eclipse.
-

ILLUMINATING APPARATUS.

- C. Catoptric, or by metallic reflectors.
- D. Dioptric, or by lenses and prisms.
- Ord. Order, or class of apparatus, numbered from the first (or most powerful) to the sixth order.
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The bearings are magnetic, and are given from seaward.

The given distances, from which the lights should be visible in clear weather, are calculated for an observer at a height of fifteen feet above the sea; the elevation of the lights being in all cases taken as above high water.

In several cases, however, when the light is not powerful enough to carry to the distance calculated from its height, a reduced range has been given.

The coloured lights are specially noted *in italics* in the column for remarks, all others being white.

The lights are exhibited from sunset to sunrise.

Longitude is given in degrees, minutes, and seconds east of Greenwich. The miles given are nautical miles, or minutes of latitude. The positions given are only approximate ones.

The light-vessels and lighthouses are provided with both Codes of Signals, but it is advisable to use the Commercial Code.

*** Should Pilots or Commanding Officers of vessels detect or suspect that any movable mark has changed from its latest advertised position, they are requested to report such change without delay to the Harbour Master of the district concerned.*

LIGHTS.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
1-2	Canton	Dutch Folly North Beacons.	On rocks near Dutch Folly Island, north side of the channel.	{ 23° 6' 35" 23° 6' 35"	{ 113° 16' 34" 113° 16' 28"	} F.	.....	2
3	do.	Dutch Folly South Beacon.	On rocks near Dutch Folly Island, south side of the channel.	23° 6' 32"	113° 16' 30"	F.	.....	1
4-5	do.	Taishek Barrier Bea- cons.	On the north side of the Barrier Channel, Blenheim Passage.	{ 23° 2' 12" 23° 2' 18"	{ 113° 19' 18" 113° 19' 3"	} F.	.....	1
6	do.	Taimai Beacon	On the south-east side of the sandspit off 49th Point, Marines Island, Blenheim Passage.	23° 3' 8"	113° 17' 35"	F.	.....	1
7	Swatow.....	Breaker Point	On the point	22° 56' 30"	116° 28' 10"	Occ.	8 seconds light and 2 seconds eclipse.	19
8	do.	Cape of Good Hope...	On the cape.....	23° 14' 35"	116° 48' 31"	F. & Occ.	.....	15 white, 8 red.
9	do.	Sugar Loaf	On the eastern end of the summit of island.	23° 19' 54"	116° 45' 32"	F. & FL.	½ minute	8
10	do.	Lamocks	Summit of High Island	23° 14' 50"	117° 17' 30"	F.	.....	22
11	do.	do.	Southern slope of High Island ....	.....	.....	F.	.....	7
12	Amoy.....	Chapel Island	Summit of island.....	24° 10' 18"	118° 13' 30"	F. & FL.	½ minute	22
13	do.	Tsingseu Island.....	On the northern slope of the island	24° 22' 15"	118° 7' 0"	F.	.....	15 white, 8 red.
14	do.	Taitan Island.....	On the island, near the northern entrance to Amoy Harbour.	24° 23' 30"	118° 9' 48"	F.	.....	10
15	Takow.....	Fisher Island	S.W. extremity of island.....	23° 32' 53"	119° 28' 7"	F.	.....	15
16	do.	Fort Zelandia.....	About 100 yards to seaward and directly in front of the tree on the top of the mound in Fort Zelandia.	.....	.....	F.	.....	.....

LIGHTS.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round granite beacons surmounted by a lan- tern and painted red.	17	26	1859	Unclassed ...	Two <i>red</i> lights on the northern side of the channel. The same as Beacons Nos. 1-2.	1-2
Round, stone and brick beacon, surmounted by a lantern, painted green.	10	18	1859	do.	A <i>green</i> light on the southern side of the channel. The same as Beacon No. 3.	3
Spar beacons, painted black, white, and red, and surmounted by a lantern.	12	25	1872	do.	Two <i>red</i> lights to mark the deepest water over the barrier. The same as Beacons Nos. 4-6.	4-5
Spar beacon, painted white and black, sur- mounted by a square wooden frame.	12	25	1872	do.	A <i>white</i> light to mark the south-east edge of sandspit. The same as Beacon No. 7.	6
Round, black and white horizontal bands.	152½	120	1880	D. 1st Order	<i>White</i> from S. 55° W. round by W. to N. 53° E., and <i>red</i> inshore of both these bearings as far as the land.	7
Round, white	171	22	1880	D. 4th Order	<i>Fixed red</i> from S. 32° E. to S. 10° E.; <i>fixed white</i> , eclipsed for about 4 seconds every minute, from S. 10° E. round by S. and W. to N. 8½° E.; and <i>fixed red</i> , eclipsed for about 4 seconds every minute, from N. 8½° E. till it is shut in by Maurh Point.	8
Round, red	200	21½	1880	D. 6th Order	<i>Fixed white</i> varied by <i>red</i> flashes at ½-minute intervals; visible all round.	9
Round, black.....	241	54	1874	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and the second and third.	10
No tower	55	18	1874	D. 4th Order condensing.	Shows a <i>red</i> light only, between N. 34½° E. and N. 50½° E., covering the White and Boat Rocks. Exhibited from a window in a building painted white.	11
Round, black	227	63	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them.	12
Octagonal, alternate red and white vertical stripes.	130	33	1875	D. 4th Order	<i>Red</i> from N. 1° E. to N. 57° W.; <i>white</i> from N. 57° W. round by W. and S. to S. 50° E.; and <i>red</i> from S. 50° E. to S. 80° E. The lightkeepers' dwellings and boundary wall are painted white.	13
Octagonal, white	300	16	1863	Four Argand lamps with sil- ver reflectors.	Visible only from W. round by N. to S.E.....	14
Round, black	205	33	1875	D. 4th Order	Visible all round except where obscured by the islands. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 10 minutes between them.	15
Mast	60	.....	1882	D. 6th Order	Visible from N.E. round by W. to E. During the N.E. monsoon vessels may anchor anywhere in from 4½ to 5 fathoms, with the light bearing between N. 62° and N. 73° E. During the S.W. monsoon the best anchorage will be found in from 6 to 7 fathoms with the light bearing about N.E.	16

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Weather.
17	Foochow	Ockseu	Summit of High Island	24° 59' 0"	119° 28' 0"	Rev.	1 minute	24
18	do.	Turnabout.....	Summit of island	25° 26' 0"	119° 58' 42"	F.	.....	23
19	do.	Middle Dog	N.E. extremity of Middle Dog Island.	25° 58' 20"	120° 2' 20"	F. & Fl.	$\frac{1}{2}$ minute	23
20	do.	Pagoda Rock	On the rock in the Pagoda Anchor- age.	.....	.....	F.	.....	1
21	Ningpo	Square Island	Summit of island	29° 59' 22"	121° 45' 6"	F.	.....	9
22	do.	Tiger Island	do. do.	29° 57' 43"	121° 43' 51"	F.	.....	5
23	Shanghai ...	West Volcano	do. do.	30° 20' 25"	121° 51' 45"	F.	.....	15
24	do. ...	Gutzlaff.....	do. do.	30° 48' 34"	122° 11' 24"	F.	.....	20
25	do. ...	North Saddle	N.E. extremity of island.....	30° 51' 56"	122° 40' 21"	Rev.	1 minute	24
26	do. ...	Tungsha.....	Light-vessel on S.W. part of Tungsha Bank, in $3\frac{1}{2}$ fms. water, with Gutzlaff Lighthouse bearing S. 23° 13' E., Shaweishan Island N. 37° 10' E.	31° 8' 6"	122° 0' 52"	Rev.	$\frac{1}{2}$ minute	11

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, black	286	64	1874 altd. 1875	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third.	17
do.	257	54	1873	do.	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them.	18
Round, white	257	64	1872	D. 1st Order	Visible from S. 70° E. round by S. and W. to N. 40½° E. From S. 70° E. round by E. to N. 40½° E. the light is obscured by the Tongsha and Middle Dog Islands, except from S. 89° E. to N. 81¾° E., and from N. 61½° E. to N. 57° E., where the light is also visible. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third.	19
Iron pile surmounted by a cage.	14	28	1871	Unclassed ...	Red, visible all round.....	20
Octagonal, white	123	33	1865 altd. 1872	D. 5th Order	Visible all round. A 5 cwt. fog bell is sounded <i>once</i> in fogs at 15 <i>second</i> intervals.	21
Octagonal, red and white vertical stripes.	148	30	1865 altd. 1872	D. 6th Order	Red, visible all round. A gong is sounded in fogs, <i>five times</i> in quick succession, at intervals of about <i>one minute</i> . The lightkeepers' dwellings are painted in red and white vertical stripes.	22
Round, black	93	33	1872	D. 4th Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them.	23
No tower, white lan- tern.	270	24	1869	D. 3rd Order	Visible all round. Telegraph station. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third.	24
Upperpart black, lower white.	273	54	1870	D. 1st Order	Visible from N. 52° W. round by W. and S. to N. 73° E. The remaining angle is chiefly obscured by the Saddle and Parker groups of islands. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 1 minute between the first and second and 5 minutes between the second and third.	25
Red, with one mast and black ball.	40	.....	1855 altd. 1871	C.	"TUNGSHA" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam horn will be sounded at intervals of <i>ten seconds</i> . When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail.	26

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
27	Shanghai ...	Shaweishan.....	Summit of island	31° 25' 27"	122° 14' 42"	F.	.....	22
28	do. ...	Kiutoan.....	Light-vessel, on the north side of the channel, in 3½ fms. of water, with the Kiutoan Beacon bearing S. 67° W., distant about 2½ miles.	31° 16' 41"	121° 46' 48"	F.	.....	11
29	do. ...	Kiutoan Small Beacon	On the south bank of the Yangtze, 5 miles N.W. of the old Kiutoan Lighthouse.	31° 19' 10"	121° 39' 9"	F.	.....	5
30	do. ...	Lismore Wreck Light- boat.	About 500 feet N. from the Lismore wreck.	.....	.....	F.	.....	1
31	do. ...	Woosung.....	Left bank of the Woosung River, near Woosung.	31° 23' 18"	121° 29' 36"	F.	.....	12 white, 8 red, 5 green
32-33	do. ...	Woosung Inner-Bar Lights.	Right bank of the Woosung River .....	.....	.....	F.	.....	2
34	Chinkiang, Yangtze.	North Tree	On the north bank of the river	32° 0' 27"	120° 23' 46"	F.	.....	7
35	do. ...	Cooper Island.....	On the upper end of Cooper Island, known also as Cooper Bank.	.....	.....	F.	.....	7
36	do. ...	Tunglotu	On the north bank of the river ...	.....	.....	F.	.....	7
37	do. ...	Bate Point, or Fish- bourne Island.	On Bate Point .....	.....	.....	F.	.....	7
38	do. ...	Beaver, or Pottinger Island.	On the southern extremity of the island.	.....	.....	F.	.....	7
39	do. ...	Tantu.....	On the south bank of the river, distant 5.62 miles below Silver Island.	.....	.....	F.	.....	7
40	do. ...	Peisinchow	Lower (east) end of island, distant 5 miles from Chinkiang.	.....	.....	F.	.....	7
41	do. ...	Bethune Point.....	Upper (west) end of Peisinchow Island.	.....	.....	F.	.....	7
42	do. ...	Mud Fort.....	On a low point on the north bank of the river, marked on some of the British Admiralty charts as Mud Fort, distant from Bethune Point 21 miles.	.....	.....	F.	.....	7
43	do. ...	Wade Island.....	On the island, about 4 miles from the lower (north) end.	.....	.....	F.	.....	7

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, black	229	55	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 5 minutes between the first and second and 1 minute between the second and third.	27
Red, one mast with black ball.	35	.....	1878	C.	"KIUTOAN" on her sides. In foggy weather a 10 cwt. fog bell will be struck three double blows in each minute, the interval between the blows of each pair being 5 seconds, and between two successive pairs of blows 15 seconds. When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail.	28
Wooden tripod, black	32	40	1868 altd. 1878	D. 6th Order	Red, visible all round, except on the landward side.....	29
Junk with one mast and ball.	.....	.....	1877	Unclassed ...	A <i>red</i> light with a <i>white</i> light underneath it.....	30
Square, black.....	50	58	1865 altd. 1872, 1873, 1875, and 1878. 1872	D. 4th Order	<i>White</i> from the bank of the Yangtze to the westward of the lighthouse to S. 2° W.; <i>green</i> from S. 2° W. to S. 59° 15' W.; <i>white</i> from S. 59° 15' W. to S. 72° 20' W.; and <i>red</i> from S. 72° 20' W. to the opposite bank of the Woosung River.	31
.....	.....	.....	.....	Unclassed ...	A <i>red</i> low light on the river's bank, and a <i>white</i> high one on a pole a little inland. See No. 37 in list of Beacons.	32-33
Black, single pole, sur- mounted by wicker ball.	65	73	1868 altd. 1873	D. 6th Order	.....	34
do.	51	62	1867 altd. 1873, 1876, and 1880.	do.	In October 1881, this light was moved 470 yards to the N. 25° W. of its former position.	35
do.	49	59	1871 altd. 1875	do.	In August 1877, this light was moved 800 yards to the S. 82° W. of its former position.	36
do.	53	63	1867 altd. 1873	do.	The spit or shoal at this point extends about $\frac{1}{2}$ a mile into the river, and the light is opposite the broadest part of the spit.	37
do.	52	62	1867 altd. 1872	do.	In September 1878, this light was moved 500 yards to the S. 15° E. of its former position.	38
do.	75	43	1867 altd. 1875	do.	.....	39
do.	51	64	1871 altd. 1873	do.	.....	40
do.	55	68	1867 altd. 1875 and 1878.	do.	In October 1881, this light was moved 146 yards to the N. 84° E. of its former position.	41
do.	55	70	1877 altd. 1878	do.	Its use is to define the point, which being low and flat, is frequently at night hidden in the shade shown by the high hills—Wulung Shan—forming the S. bank of the river. In October 1881, this light was moved 250 yards to the N. 67 $\frac{1}{2}$ ° E. of its former position.	42
do.	52	70	1867 altd. 1873	do.	.....	43

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
44	Chinkiang, Yangtze.	Wuhu.....	East bank of the river, $3\frac{1}{2}$ miles from Point Morton.			F.		7
45	Kiukiang, Yangtze.	Point Haines.....	On the south bank			F.		7
46	do. ...	Buckminster Island...	Lower end of island.....			F.		7
47	do. ...	Fitzroy Island	do. do.			F.		7
48	do. ...	Taitzeki.....	On the rock			F.		7
49	do. ...	Hen Point Light	On north bank, opposite Hen Point.....			F.		7
50	do. ...	Kiangloong Wreck ...	Off Hen Point Light.....			F.		4
51	do. ...	Eagle Island.....	Lower end of island			F.		7
52	do. ...	Christmas Island.....	Upper end of island.....			F.		7
53	do. ...	Dove Point.....	On the north bank			F.		7
54	do. ...	N.E. Crossing.....	do. do.			F.		7
55	do. ...	Point Otter, Lay Island	Lower end of island.....			F.		7
56	do. ...	Kiukiang Rocks.....	On the south bank			F.		4
57	do. ...	Esbern Snare Wreck	Off the centre of Bund			F.		2
58	do. ...	Spencer Rock.....	Off south bank in Tungliu Reach			F.		2
59	Hankow, Yangtze.	Hwanglinchow	On lower end of the island of that name.			F.		7
60	do. ...	Low Point.....	On the point.....			F.		3
61	do. ...	Ruined Fort.....	On top of fort			F.		7
62	do. ...	Lee Rock	On a bluff about $\frac{1}{4}$ mile above Lee Rock on right bank of river.			F.		$1\frac{1}{2}$
63	do. ...	Yanglow and Ten Foot Rock Light-boat.	At the point opposite Yanglow, and opposite Ten Foot Rock.	$30^{\circ} 12' 16''$	$115^{\circ} 12' 53''$	F.		7
64	do. ...	Collinson and Hunter Islands Light-boat.	Lower end of Collinson and upper end of Hunter Island.			F.		7
65	do. ...	Collinson Island Light-boat.	Upper end of Collinson Island.....			F.		7
66	do. ...	Gravener Island Light-boat.	Upper end of Gravener Island.....			F.		7

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Black, single pole, sur- mounted by wicker ball.	77	44	1867 altd. 1875	D. 6th Order		44
do.		36	1870	do.		45
do.		41	1870	do.		46
do.		38	1870	do.		47
do.		15	1870	do.		48
do.		33	1870	do.		49
A floating frame		5	1873	Ship's light	<i>Red.</i> The wreck bears N. 68° W. from Hen Point and S. 35° W. from Taitzeki Josshouse. The frame is moored abreast of the wreck (not over it) and on the left bank of the river. Steamers passing close alongside the light will clear the wreck. Too much reliance should not be placed on this light, as it may be carried away or be inaccessible in stormy weather.	50
Black, single pole, sur- mounted by wicker ball.		41	1870	D. 6th Order		51
do.		40	1870	do.		52
do.		41	1870	do.		53
do.		38	1870	do.		54
do.		36	1870	do.		55
A single pole		8		Unclassed ...	<i>Red</i> pointing to the rock. <i>White</i> in approaching from above or below.	56
A floating frame		4	1875	Ship's light	<i>Red.</i> Over the wreck; used only during a low state of the river.	57
do.		5	1876	do.	Only in position during very low water.....	58
Tripod beacon, painted red, with ball on top.		60	1872	D. 6th Order	Visible from N. 85° E. round by S. and W. to N. 35° W.....	59
do.	43	58	1871 altd. 1872	do.	<i>Red.</i> Visible from S.E. round by S. and W. to N. 15° E.	60
do.		50	1873	do.	Visible from N. 35° W. round by N. and E. to S. 25° W.....	61
Red, single pole.....	50		1882	Stake lantern	Visible all round	62
One mast and ball	32		1873	do.	Visible all round. Stationed at the point opposite Yang-low from about 1st July to 31st October, and at Ten Foot Rock from about 1st November to 30th June.	63
do.	32		1871 altd. 1873	do.	Visible all round. Stationed at Hunter Island from about 1st January to 30th June, and at Collinson Island from about 1st July to 31st December.	64
do.	32		1871 altd. 1873	do.	Visible all round. Stationed on north bank from about 1st January to 30th June, and on south bank to mark cut off, from about 1st July to 31st December.	65
do.	32		1869 altd. 1873	do.	Visible all round. Position altered as necessary.....	66

LIGHTS—Continued.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
67	Hankow, Yangtze.	Bouncer Island Light-boat.	Lower end of Bouncer Island			F.		7
68	Chefoo.....	Shantung	On the N.E. extremity of Pro- montory.	37° 24' 0"	122° 42' 0"	F.		22
69	do.	Chefoo Light.....	Kungtungtao Island, highest part	37° 34' 10"	121° 31' 30"	F.		22
70	do.	Howki Island.....	Summit of Island.....	38° 3' 40"	120° 35' 30"	F.		10
71	Tientsin.....	Taku	Light-vessel outside the bar and moored in 17 feet of water at low water springs.	38° 53' 0"	117° 50' 30"	F.		10
72	Newchwang	Newchwang	Light-vessel in 5½ fathoms, 3½ miles from bar of Liao River.	40° 35' 0"	122° 0' 0"	F.		11

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
One mast and ball	32	.....	1871 altd. 1873	D. 6th Order	Visible all round. Stationed on north side of spit to mark cut off, from about 1st July to 31st December, and on south side from about 1st January to 30th June.	67
Round, white	220	64	1874	D. 1st Order	White from S. 62° E. to S. 30° E., red from S. 30° E. to S. 17° E., white from S. 17° E. round by S. and W. to N. 21° E., and red from N. 21° E. to N. 49° E. Between S. 59½° E. and S. 18½° E. the light is seven times obscured by peaks; the obscuration between S. 26° 18' E. and S. 23° 10' E. being caused by Alceste Island. The light-keepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them.	68
Round, white and red horizontal bands.	242	45	1867	C. 1st Order	Visible all round. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them.	69
.....	300	.....	1880	D. 6th Order	A temporary light. A First Order Revolving light to show flashes at ½ minute intervals is in course of erection.	70
Red, one mast sur- mounted by an 8 feet black ball.	37½	.....	1880	D.	"TAKU" on her sides. In foggy weather a gong will be sounded at one minute intervals. In order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from the opening of the river to the 30th November, on account of ice.	71
Red, three masts, with ball on mainmast only.	40	.....	1867 altd. 1871	C.	"NEUCHWANG" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam fog horn will be sounded at intervals of ten seconds. When necessary to lower the light for trimming, a small white light will be hoisted and a blue light burned; and, in order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from about the 1st April to the 15th November, on account of the ice.	72

BUOYS.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
CANTON.				
1. Dutch Folly North Buoy	Wooden conical-shaped buoy, painted red above water.	Near Dutch Folly Island, Can- ton River.	8 feet	Marks the western extremity of the channel, northern side, between the rocks, on which the depth of water is 4 feet at low water spring tides. A <i>red</i> light is placed on it from sunset to sunrise.
2. Dutch Folly South Buoy	Wooden conical-shaped buoy, painted green above water.	do. do.	12 do.	Marks the western extremity of the channel, southern side, between the rocks. Moored close to the northern side of the rock, on which the depth of water is 2 feet at low water spring tides. A <i>green</i> light is placed on it from sunset to sunrise.
3. Macao Fort Rock Buoy	Wooden conical-shaped buoy, painted black.	On the north-east extremity of Macao Fort Rock.	10 do.	Marks the north-east extre- mity of Macao Fort Rock. A <i>green</i> light is placed on it from sunset to sunrise. Vessels should pass be- tween this buoy and the Haeshin Rock Buoy.
4. Haeshin Rock Buoy	Wooden conical-shaped buoy, painted red above water.	South-western edge of Haeshin Rock.	10 do.	Marks the south-western edge of Haeshin Rock. A <i>red</i> light is placed on the buoy from sunset to sun- rise. Vessels should pass between this buoy and the Macao Fort Rock Buoy.
5. Shamien Rock Buoy....	Wooden conical-shaped buoy, painted in red and black chequers above water.	On the northern extremity of the Shamien Rocks.	12 do.	Marks the northern extre- mity of Shamien Rocks. A <i>red</i> light is placed on the buoy from sunset to sunrise. Vessels entering should leave this buoy on the port hand when rounding-to to anchor in the harbour.
SWATOW.				
1. Dove Rock Whistling Buoy.	Red and black chequered au- tomatic whistling buoy, 10 feet in diameter at the water line.	Off the Dove Rock.....	4½ fathoms..	Placed about two cables from the pinnacle of the Dove Rock, so as to mark the S.E. extremity of the reef.
2. Mud Flat Buoy	Iron nun buoy. Diameter 4 feet, painted red, and surmounted by a black spherical cage.	Outer edge of Mud Bank; E. ½ N. of Customs Pier; distant half a mile.	2 do. ...	Marks the southern edge of the mud bank on the north side of the harbour.
3. Wyoming Rock Buoy...	Red and black chequered iron buoy, surmounted by a 2½ feet in diameter black spherical cage.	Off the rock, Swatow Anchorage	4 do. ...	This buoy is placed about 40 yards N.E. from the rock.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
4. Wreck Buoy	A 4 feet square iron tank, painted red (<i>temporary</i>).	10 fathoms south of wreck	6 fathoms ...	To mark the wreck of a sunken junk, which lies about 150 yards south of the edge of the mud bank on the north side of the harbour. From the buoy, Bottefurh's Rock bears S. $\frac{1}{2}$ E., and south extreme of the circular fort on the north side of the river, E. by N.
5. Madras Rock Buoy.....	Red and black chequered square wooden buoy, surmounted by a 2 $\frac{1}{2}$ feet in diameter black spherical cage.	Off the rock, Swatow Anchorage	5 do. ...	This buoy is placed about 40 yards N. by E. from the rock, which has only 8 feet of water on it at low water spring tides.
AMOY.				
1. Coker Rocks, large Buoy	Iron nun buoy. Diameter 7 ft. 6 in. Red and white vertical stripes.	Near Coker Rocks, southern entrance to Inner Harbour.	6 $\frac{1}{2}$ fathoms...	Eastward of Coker Reef.
2. Coker Rocks, small Buoy	Iron can buoy. Diameter 3 ft. 4 in. Red.	do. do.	6 $\frac{1}{2}$ do. ...	Westward of Coker Reef.
3. Brown's Rock Buoy.....	Iron nun buoy. Diameter 5 ft. 3 in. Red and white horizontal stripes.	Near Brown's Rocks, south entrance of Inner Harbour.	7 do. ...	About E.S.E. of highest pinnacle of reef. This buoy will shortly be replaced by two buoys, one to the westward and the other to the eastward of reef.
4. Harbour Rock Buoy.....	Iron nun buoy. Diameter 3 ft. 4 in. Red and white horizontal stripes.	On Harbour Rock	2 $\frac{1}{4}$ do. ...	About 130 fathoms S.W. of Dock Island.
5. Kellett Spit Buoy	Iron can buoy. Diameter 6 ft. Red.	On the northern edge of Kellett Spit.	3 $\frac{1}{4}$ do. ...	Vessels should pass to the northward of this buoy.
TAMSUI.				
1. Fairway Buoy.....	Red and black horizontal striped fairway buoy, surmounted by a black spherical cage.	Outside Bar, Tamsui	5 fathoms ...	Chinese Black Beacon, N. 56° E.; White Beacon, S. 86° E.
2. Harbour Buoy	Red nun buoy.....	Northern edge of mud bank, Tamsui Harbour.	7 feet	White Beacon, N. 6° W.; distant about 450 yards.
3. Inflexible Reef Buoy	Black nun buoy. Diameter 4 ft., surmounted by a black spherical cage.	Inflexible Reef, Kelung Harbour.	11 fathoms	Image Point N. 58° W.; Ruin Rock, S. 28° W.
4. Coral Shoal Buoy.....	Red nun buoy. Diameter 4 ft., surmounted by a black spherical cage.	To the eastward of shoal, Kelung Harbour.	5 do.	Image Point N. 24° W.; Ruin Rock, S. 61° W.
FOOCHOW.				
1. Min Reef Whistling Buoy.	Red and black chequered automatic whistling buoy. The name "MIN" is painted on the buoy in white letters.	Off the northern extremity of Min Reef.	11 fathoms...	10 feet diameter. From the buoy Chang Chi Peak bears N. 49° E.; Sharp Peak bears N. 73° W.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
2. Ayamar Rock Buoy	Red and black chequered buoy, surmounted by a black diamond-shaped cage. The name "AYMAR" is painted on the buoy in white letters.	Ayamar Rock, entrance to Min River.	11 fathoms...	6 feet diameter, about $1\frac{1}{2}$ cables E. of the rock. Chang Chi Peak bears N. 68° E.; Middle Dog Lighthouse bears S. 37° E.; Sea Dog Summit bears S. 59° E.; Sea Cat Summit bears S. 71° E.
3. Outer or No. 1 Buoy....	Red and black horizontal striped fairway buoy, surmounted by a black cage.	Entrance to Min River	8 do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. $85\frac{1}{4}^{\circ}$ W. Triangle Head bears S. 50° W.
4. Middle or No. 2 Buoy	Red and black horizontal striped fairway buoy, surmounted by a black conical frustum cage.	do. do.	$3\frac{1}{2}$ do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. $69\frac{1}{2}^{\circ}$ W. Triangle Head bears S. 45° W.
5. Inner or No. 3 Buoy....	Red and black horizontal striped fairway buoy, surmounted by a black cage.	do. do.	$7\frac{1}{2}$ do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. $46\frac{1}{4}^{\circ}$ W. Round Island bears S. $54\frac{1}{2}^{\circ}$ W.
6. Eme Rock Buoy.....	Red nun buoy	Starboard side of channel, Min River.	$2\frac{1}{4}$ do. ...	Clears Eme Rocks. Sharp Peak Point bears S. 77° E. Sharp Peak Summit bears N. 12° E.
7. Temple Rock Buoy.....	do.	Temple Rock, Min River.....	$4\frac{1}{2}$ do. ...	Marks the southern extremity of the rock.
8. Spiteful Island Buoy ...	do.	Starboard side of channel, Min River.	$4\frac{1}{2}$ do. ...	Clears the rocks on starboard hand.
9. do. do. ...	Black nun buoy	Port side of channel, Min River.	3 do. ...	Clears the rocks off Spiteful Island.
NINGPO.				
1. Sesostris Rock Buoy	Black and red chequers, surmounted by a red cage.	Near the rock in mid-channel	$2\frac{1}{2}$ fathoms...	This buoy is placed off the western edge of the rock, on which there is 9 feet of water at low water spring tides. 6 feet diameter, $11\frac{1}{2}$ feet high from water, including cage.
2. Seaouyew Spit Buoy....	Black buoy surmounted by a black cage.	On the end of the mud spit projecting from Seaouyew Island.	$2\frac{1}{2}$ do. ...	Tiger Island Lighthouse bears S. 23° W.; Tayew Island (N.W. point) bears N. 75° E.
SHANGHAI.				
1. Ariadne Rock Whistling Buoy.	Red and black chequered automatic whistling buoy.	About 50 fathoms south of the Ariadne Rock.	33 feet	8 feet in diameter, and 8 feet above the water line. The Ariadne Rock just shows at low water spring tides.
2. Blockhouse Shoal Buoy	Red iron buoy, with black spherical cage.	On the S.W. edge of Blockhouse Shoal.	34 do.	6 feet diameter, 12 feet high. Kiutoan Beacon bears S. 5° $15'$ W., distant $2\frac{9}{10}$ miles.
3. Lismore Wreck Buoy ...	Green iron nun buoy, with the word "WRECK" painted on it in white letters.	Immediately below the wreck of the <i>Lismore</i> , in line with the wreck and Woosung Lighthouse.	14 do.	4 feet diameter.
4. Woosung Buoy.....	Red and black vertical striped buoy with spherical cage.	On the starboard hand of the channel at the entrance to the Woosung River.	20 do.	10 feet diameter, 18 feet high to top of cage.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.	
	Description.	Position.			
Yangtze River above Woosung.	5. Bush Island Buoy	Red and black vertical striped buoy, 6 feet in diameter, with black spherical cage.	To the north-west of Bush Island.	Uncertain...	Vessels should not pass between this buoy and Bush Island.
	6. Dove's Nest Buoy	Red iron buoy with black spherical cage.	On the edge of the Dove's Nest Shoal, on the starboard side of the channel.	do. ...	8 feet in diameter.
	7. Centaur Lower Buoy.	Black iron buoy with black spherical cage.	S.E. end of the Centaur Bank	do. ...	6 feet diameter, 11½ feet high.
	8. Centaur Buoy	Black iron buoy with cage...	N.E. end of the Centaur Bank	do. ...	do. do.
	9. Middle Bank Buoy.*	Black buoy with black spherical cage.	S.E. extremity of Middle Bank	do. ...	do. do. †
	10. Middle Bank Upper Buoy.*	Black buoy with cage	N.E. edge of Middle Bank.....	do. ...	do. do. †
	11. North Bank Buoy.*	Red buoy with cage.....	S.W. edge of the North Bank	do. ...	do. do. †
	12. Langshan Buoy*	do. do.	Langshan Crossing.....	do. ...	do. do. †
	13. Waterman Bank Upper Buoy.*	Black buoy with cage.....	To the eastward of the Waterman Upper Bank.	do. ...	do. do. †
	14. Vine Point Buoy*	Red buoy with cage	Off the edge of the Shoals to the S.E. of Vine Point.	do. ...	do. do. †
	15. Drinkwater Point Buoy	Red and black horizontal striped fairway buoy, with black spherical cage.	In the North Channel	27 feet	10 feet diameter, 18 feet high to top of cage. Shaweishan Lighthouse bears N. 83° E., distant about 11¼ miles.
	TIENTSIN.				
	1. Entrance Buoy.....	Red iron buoy	On the outer edge of the bar, to mark its commencement and the entrance to the channel.	2 feet.	
	2. South Buoy	Black iron buoy	On the south side of the bar, to mark a bend in the channel.	4 do.	
3. Inner Buoy.....	Red and black striped iron buoy.	On the inner end of the bar, to mark the inner entrance to the channel.	4 do.		
NEWCHWANG.					
1. Entrance Buoy	Black and white vertically striped iron nun buoy, surmounted by a black ball.	On the western edge of the bar, at the entrance to the river, as a leading mark through the channel.	3 fathoms ...	Light-vessel bears S. 64° W., distant 3½ miles. Inner Buoy bears N. 61° 52' E., distant 3 miles.	
2. Inner Buoy.....	Black and white horizontally striped spar buoy, surmounted by a black ball.	S.E. edge of the West Bank...	10 feet.		

* These six buoys lead over the Langshan Crossing.

† In consequence of the frequent changes which take place in the shoals at the Langshan Crossing, these six buoys are liable to be often moved, and a full description is therefore undesirable.

BEACONS.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
CANTON.				
1-2	Dutch Folly North Beacons.	On the sunken rocks near Dutch Folly Island, north side of the channel.	Round granite beacons, 26 feet high, surmounted by a lantern, and painted red.	Fixed <i>red</i> lights are exhibited from sunset to sunrise.
3	Dutch Folly South Beacon.	On the sunken rocks near Dutch Folly Island, south side of the channel.	A round brick and stone beacon, 18 feet high, surmounted by a lantern and painted green.	A fixed <i>green</i> light is exhibited from sunset to sunrise.
4-5-6	Taishek Barrier Beacons.	On the northern side of the Taishek Barrier Channel, Blenheim Passage.	Spar beacons, 25 feet above high water. The beacons marking the eastern and western ends of the channel are surmounted each by a round wooden frame and painted black, white, and red. The round wooden frame has been removed from the centre beacon.	Fixed <i>red</i> lights are exhibited from sunset to sunrise on the eastern and western beacons. The <i>red</i> light is discontinued on the centre beacon.
7	Taimei Beacon.....	On the sandspit off 49th Point, Marines Island, Blenheim Passage.	Spar beacon, 25 feet above high water, surmounted by a square wooden frame, and painted black and white.	A fixed <i>white</i> light is exhibited from sunset to sunrise.
8	Flat Island Beacon...	On the S.E. end of No. 1 Flat Island.	Wooden pile construction in ruins.	Originally erected to mark a mud-spit projecting off this island in a S.E. direction. The spit has extended and a portion of it has been reclaimed, and the beacon now stands within the embankment. No light is exhibited.
SWATOW.				
9	Gochang Rock Beacon.	On the rock, Swatow Anchorage	Red and black chequered granite beacon, 5 feet in diameter, 5 feet high, and carrying a 5 feet high pole surmounted by a black wicker basket 2 feet in diameter.	The highest of these rocks is covered at high water. From the beacon Gochang Point bears S. 31° E. and is distant about 350 yards; Bottefurh's Rock bears N. 76° E.
AMOY.				
10	Alibi Rock Beacon...	On a rock a little to the N.E. of the northern end of Kulangsu.	Granite obelisk, 22 ft. above rock, painted white.	Rock dry at low water.
11	Kangsintah Beacon.	These two beacons mark the eastern edges of two reefs of rocks extending out from Kulangsu into the Inner Harbour.	Granite obelisk, 15 ft. above rock, painted white.	Both these rocks in line with highest pinnacle of Coker Rock, bearing S. 34° E. Both dry at $\frac{3}{4}$ ebb.
12	Chiotah Beacon		Granite obelisk, 17 ft. above rock, painted white.	
13-24	Harbour Marks.....	On rocks in the Inner Harbour. Three off the north end of Kulangsu; five on the west side of Inner Harbour; and four on the east side of Inner Harbour.	12 perches, with round basket tops painted white.	The first three mark northern edges of reefs off north end of Kulangsu. The next five are on rocks on the western side of Inner Harbour. The last four on the eastern side.
TAMSUI.				
25	Entrance Beacon....	On the northern bank of the river, Tamsui, 1,030 yards from the Red Fort, from which it bears N. 87° W.	A pyramid-shaped beacon, 49 feet high, consisting of four poles surmounted by a wicker cage; the whole painted white.	Beacon in line with Red Fort or Custom House forms a leading mark for entering Tamsui Harbour, subject to changes in Bar channel.
26	Bush Island Beacon	On the extreme west end of Bush Island, Kelung Harbour.	Boards mounted on a single spar 43 feet high; the sea face of the boards is painted white, the spar painted black.	

BEACONS—Continued.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
FOOCHOW.				
27	Oriental Rock Beacon.	On Oriental Rock, Kimpai Pass	Spar mounted with a cage, 4 ft. square on the upper, and 2 ft. 6 in. on the lower part. Painted red, with the words "ORIENTAL ROCK" in black on the cage. Shows 14 ft. above high water spring tides.	At high water spring tides the rock is covered 4 ft. Vessels must pass to the south of the beacon, and not nearer than 100 feet.
28	Half-tide Beacon.....	On the Half-tide Rock near the upper end of Tongue Shoal.	Built of granite.	
29	Pagoda Rock Beacon	On the rock in the Pagoda Anchorage.	Iron pile surmounted by a cage painted red.	A red light is exhibited from sunset to sunrise.
30	Mamoi Rock Beacon	On Mamoi Rock.	Pole with cage painted red	The rock is only covered at high water.
WENCHOW.				
31	Elephant Rock Beacon.*	On a small pinnacle rock called "Hsiang Shih" (Elephant Rock), about 600 feet S.E. of the east end of Pagoda Island (Kuksü, or, vulgarly, Kiang-sinsze), which is in the middle of the river opposite the north wall of the city.	The beacon consists of a pole 15 inches in diameter, painted black and white alternate bands, on which is fixed a ball 6 feet in diameter, painted black, with a horizontal white band round the centre.	The top of the pole is 24 feet above high-water springs. The centre of the ball is 15 feet above high-water springs. The rock is submerged 8 feet at high-water springs.
NINGPO.				
32	Alligator Beacon.....	On Alligator Point, a ledge of rocks extending two cables south on the extreme southern end of Kintang Island.	Stone beacon, painted white...	Long-nose Point bears N. 56½° W., Just-in-the-way bears S. 87° E.
33	Blonde Rock Beacon	Blonde Rock in the Kintang Channel.	Iron beacon, painted white, with a red cage.	Sanshan Islet bears S. 42° E., Square Island N. 65° W., Beacon Hill in one with the citadel S. 45° W. Rock awash at low water.
34	Tiger's Tail Beacon...	On a rock bearing N. 43° W. from the tower on Tiger Island. Distance, 210 yards.	Iron beacon with cage, painted white.	Rock awash at half tide.
35	Nemesis Rock Beacon.	On a ledge of rocks extending from the N.E. point of Tayew Island.	Hard-wood spar, painted white above high-water mark, black beneath.	Erected by Chinese, but maintained by the Customs.
SHANGHAI.				
36	Kiutoan Beacon.....	South side of entrance to the River Yangtze.	Round black tower, 70 feet high.	Formerly a light was exhibited from this tower, but it was discontinued in April 1878, when the <i>Kiutoan</i> Light-ship (Light No. 27 of this publication) was first placed in position. The beacon is four cables from the shore, and of little use as a guide to a stranger.
37	Woosung Inner-Bar Marks.	On the right bank of the Woosung River.	1. A low pole with a pyramidal top. 2. A high pole with a rectangular top.	These poles kept in line lead across the bar in the depth of water which is signalled from the Customs station during daylight. A red low light on the river's bank and a white high light on the low pole indicate the same channel by night.

* This beacon was formerly erroneously termed "Lion Rock Beacon."

BEACONS—*Continued.*

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
	KIUKIANG.			
38	Lay Island Beacon	Upper end of Lay Island.....	A pole painted black and white surmounted with a black ball 3 feet in diameter.	Placed to mark the channel during the low state of water in winter.
	CHEFOO.			
39	Fairway Rock Beacon.	On the Fairway Rock, off the N.W. point of Yentai Hill.	An iron rod surmounted by a cage.	In 7 to 8 feet of water at low-water spring tides, Chefoo Peak N. 4° W., Sentry Rock N. 38° E., Chefoo Lighthouse N. 85° E.
	TIENTSIN.			
40	Mud Beacon	On the north bank at the mouth of the Peiho.	Pyramid shape, painted white.	
41-42	North Bank Marks	On the north bank at the mouth of the Peiho.	Two 30 feet poles, with cages.	
43-44	South Bank Marks	On the south bank near the mouth of the Peiho.	Two poles, 30 feet high, with cages.	
45	South Bank Mark	On the south bank near the C.M.S.N. Co.'s godown.	On two poles, 20 feet high ...	It marks the channel after rounding the striped buoy.
	NEWCHWANG.			
46	Fish House Beacon	On the west bank of the river, a short distance from the bend that leads to the harbour.	Black spar, mounted with a diamond-shaped red box, bearing the figure "I."	Used as a leading mark to Beacon No. II, on the east bank.
47	Flagstaff Beacon....	On the east bank. Planted on dry ground.	Black and white spar, mounted with two black diamond-shaped boxes bearing the figure "II" on the lower one.	
48	Middle Bank Beacon	On the east bank of the river, at low-water mark.	Red spar, mounted with a diamond-shaped black box, having the figure "III" painted thereon.	It marks the channel and the Middle Bank Shoal directly opposite to the westward.
49	Nodding Tommy Beacon.	On the east bank of the river, at low-water mark.	White spar, mounted with a diamond-shaped red box, with the figure "IV" painted thereon.	It marks the Whale's-back Shoal on the opposite bank to the south-westward.
50	East Spit Beacon ...	On the East Spit, a shoal that projects to the south of the dry bank and is exposed at three-quarters ebb.	Spar, mounted with two black balls, with the figure "V" on the lower one.	It marks the edge of the east bank, and, with the Inner Buoy, forms one of the leading marks in going out or coming in.

A. M. BISBEE,

Coast Inspector.

By Order of the INSPECTOR GENERAL,

JAMES ACHESON,

Acting Assistant Statistical Secretary in Charge.

INSPECTORATE GENERAL OF CUSTOMS,
STATISTICAL DEPARTMENT,
SHANGHAI, 31st March 1882.

APPENDIX.

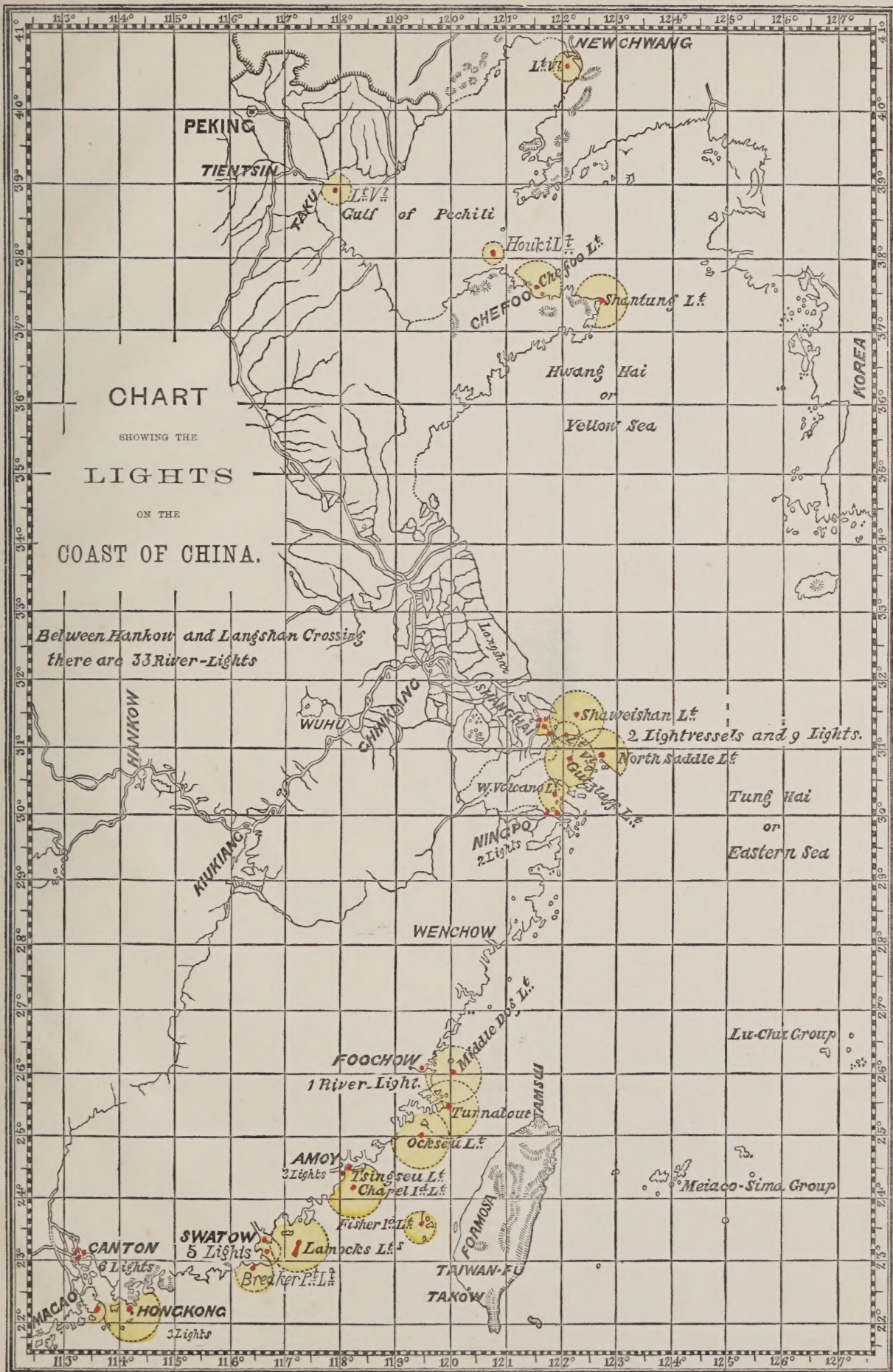
LIST OF FOREIGN LIGHTS STAFF.

No.	NAME.	RANK.	DATE OF FIRST APPOINTMENT.	DATE OF APPOINTMENT TO PRESENT POSITION.
LIGHT-VESSELS.				
1	R. T. Crighton	Captain	June 1866	August 1872.
2	W. Trebing	do.	" 1867	April 1873.
3	James Sloane	do.	July 1880	July 1880.
4	A. Getley	do.	August 1881	August 1881.
5	W. W. Orfeur	Mate	March 1880	March 1880.
6	L. O. Medicus	do. (<i>on prob.</i>)	May 1881	May 1881.
7	Edward Osborn	do.	July 1880	June "
8	Gustav Deitz	do.	March 1877	March 1877.
LIGHTHOUSES.				
LIGHTKEEPERS.				
9	C. G. Amy	Chief	October 1859	October 1881.
10	G. Mummery	do.	July 1869	January "
11	J. Martin	do.	March 1880	April 1881.
12	J. Noble	Second	June 1877	April 1880.
13	G. Taylor	do.	" "	" "
14	A. Sutherland	do.	" "	" "
15	J. Harp	do.	" "	" "
16	N. Smerdeley	do.	September 1870	January 1881.
17	G. W. Hayden	do.	" 1872	" "
18	C. M. Peterson	do.	July 1872	" "
19	F. M. Coffin	do.	October 1871	September 1875.
20	C. W. Stone	do.	June 1876	January 1877.
21	Jas. Eades	do.	" 1877	June "
22	Thos. Cunningham*	do.	" "	" "
23	J. F. Thompson*	do.	" "	" "
24	E. Lewis	do.	" "	" "
25	C. W. Bond	do.	" "	" "
26	Henry Hammond	do.	July 1876	July 1880.
27	D. Wisas	do.	September 1875	January 1881.
28	D. Botelho	do.	December 1861	" "
29	J. Anderson	Third	August 1873	August 1875.
30	L. Antonio	do.	April 1871	April 1881.
31	M. Vizeninovich*	do.	September 1875	" "
32	A. Michel	do.	December 1874	" "
33	C. Sellenthin	do.	October 1876	" "
34	J. Rodrigues	do.	August 1877	August 1877.
35	L. J. A. de Luz	do.	January 1878	January 1878.
36	J. M. Collaço	do.	" "	" "
37	W. Knight	do.	February "	February "
38	P. F. S. Wilnau	do.	November 1879	December 1881.
39	P. J. J. Stellingwerff	do.	February 1877	" "
40	C. May	do.	July 1880	May 1881.
41	F. X. Meira	do.	October 1880	" "
42	C. G. Soelberg	do.	April 1881	October 1881.
43	G. E. von Pein	do.	" "	" "
44	D. Fernandez	Fourth	June 1878	December 1881.
45	J. Chapman	do.	" "	" "
46	J. S. de Elizaga	do.	December 1878	" "
47	J. Shields	Probationary	October 1881	October "

* Acting Mate of Light-vessel.

III.—MISCELLANEOUS SERIES.

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„ 3.—VIENNA EXHIBITION CATALOGUE :	„ 1873.
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„ 5.—PARIS „ „	„ 1878.
„ 6.—LIST OF CHINESE LIGHTHOUSES, etc.: Tenth Issue: (First Issue, 1872)	„ 1882.
„ 7.—LIST OF CHINESE LIGHTHOUSES, etc.: Chinese Version: Fifth Issue: (First Issue, 1877).....	„ 1881.
„ 8.—GENERAL TARIFF LIST :	„ 1879.
„ 9.—BERLIN FISHERY EXHIBITION CATALOGUE :	„ 1880.



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